

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

51/12/27/02/21

U.S. PATENT DEPARTMENT RUU CIEZN. INC AUMEN CENTER. M/S 10-1-8 1840 DE MAVN LAMD DENVE THOUSAND DANS CA SIZO-1/39

APPLICATION NO.		FILING DATE TO		s	EXAMINER AND GROUP ART UNIT				DATE MAILED	
	us/974, 176	11/18/	97 98	u W	OTTACH,	J			1632	02/21/6
First Named Applicant	UUVLE,			38 050	154(b)	£637.44	ent.	4 12.	0 Days.	

TITLE OF INVENTION

CONTENTACTORSERIAL

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE		SMALL ENTITY		FEE DUE	DATE DUE	
1 (3.378)	516	1-044.500	032	UTI	LJTY	Mi	stead	, 00	05/21/6

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>.

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above.
 If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.

 Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADEMARK OFFICE COPY

PTOL-85 (REV. 10-96) Approved for use through 06/30/99. (0651-0033)

	Application No.	Applicant(s)					
	08/974,186	BOYLE ET AL.					
Notice of Allowability	Examiner	Art Unit					
	Jasoph Waitach	1622					
	Joseph Woltach	1632					
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance and Issue ITHIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE initiative of the Office or upon petition by the applicant. See 37 C 1.	Joseph Woitach Pars on the cover sheet with the coordinate common of the properties	Art Unit 1632 correspondence address plication. If not included nunication will be mailed in due course. bject to withdrawal from issue at the national stage application from the complying with the requirements noted INTH PERIOD IS NOT EXTENDABLE This three-month period for able under 37 CFR 1.136(a). PTO-152) which gives reason(s) why ED. 1-948) attached the proved by the examiner.					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.							
8. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Any reply to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE / SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.							
Attachment(s)	_						
1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material	4⊠ Interview Sumr 6⊡ Examiner's Am	nal Patent Application (PTO-152) nary (PTO-413), Paper No. <u>23</u> . endment/Comment tement of Reasons for Allowance					

Application/Control Number: 08/974,186

Art Unit: 1632

Reasons for allowance

Applicants after final amendments filed December 13, 2000 (paper number 18) and January 12, 2001 (paper number 22) have been received and entered. Claim 50 has been canceled. Claims 49, 51-54 have been amended. Claims 55-69 have been added. Claims 49 and 51-69 are pending.

The declaration of Dr. Jackie Z. Sheng details experiments using adenovirus to deliver a polynucleotide encoding osteoprogerin to an animal, and the results demonstrated that the administered polynucleotide resulted in increased bone density similar to that seen in the transgenic mice expressing osteoprogerin. Further, the declaration and the specification teach that amino acids 22-180 are the essential portion of the encoded polypeptide, and that deletions of amino acids 1-22 and 180-401 still results in a functional osteoprogerin polypeptide. Applicants arguments, additional data provided in the declaration and supporting references have been found persuasive and overcomes the basis of the 112 first paragraph rejection. Amendments to claims have been made for consistency and clarity of the claimed invention. New claims have been added to more throughly and completely define the patentable subject matter present in the specification and encompassed within the elected group.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Woitach, whose telephone number is (703) 305-3732. The examiner can normally be reached on Monday through Friday from 8:00 to 4:30 (Eastern time).

If attempts to reach the examine by telephone are unsuccessful, the examiner's supervisor, Karen M. Hauda, can be reached on (703) 305-6608. The fax number for group 1600 is (703)308-4724.

An inquiry of a general nature or relating to the status of the application should be directed to Kay Pickney whose telephone number is (703) 305-3553.

Joseph T. Woitach

KAREN M. HAUDA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600